

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Thursday, February 04, 2016 7:20 PM
To: 'ernestlee@gmail.com'
Cc: 'Forrest Cook'; Bill Dugan; Roe, Dilan, Env. Health; Browder, Ronald, Env. Health; 'Julie D'Hondt'
Subject: Urgent Response for Four Seasons Cleaners Required (13778 Doolittle Ave, San Leandro; RO3155)
Attachments: Vapor Intrusion PP Advisory_VIPPA_Final_03_05_12.pdf
Importance: High

Dear Mr. Lee:

Alameda County Department Environmental Health (ACDEH) staff has reviewed the case file including the *Soil Vapor and Indoor Air Investigation Report*, dated January 14, 2016 (and received by ACDEH on January 25, 2016). The report was prepared and submitted by Well Test, Inc (WTI) on your behalf. The report presents results of soil, groundwater, soil vapor, sub-slab vapor, and indoor air samples collected at the subject site on October 30, 2015, that were analyzed for chlorinated solvents related to unauthorized releases from dry cleaning operations. Reported concentrations of tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) in indoor air exceed environmental screening levels published by the San Francisco Bay Regional Water Quality Control Board (RWQCB). The concentrations of PCE and TCE significantly exceed screening levels which require immediate response actions and interim measures taken by you and your occupants to reduce or eliminate exposure to these chemicals. Multiple lines of evidence (soil, groundwater, soil vapor, sub-slab vapor data) indicate that the chlorinated solvents detected in indoor air are attributable to the subsurface contamination that is migrating into indoor air at concentrations exceeding chronic exposure levels, and Urgent Response Action Levels (URALs) for TCE. The URALs for TCE have been established by U.S. Environmental Protection Agency (EPA) Region 9 to be protective of sensitive and vulnerable populations, especially women in the first trimester of pregnancy, because of the potential for cardiac malformations to the developing fetus. Women of reproductive age are identified as the sensitive population of concern, rather than only pregnant women, because some women may not be aware of their pregnant of the critical period of the first trimester.

Selection of immediate response actions and interim measures to mitigate PCE and TCE inhalation exposure should consider how quickly they can be implemented, and include:

- Increasing building pressurization and / or ventilation
- Sealing potential conduits where vapors may be entering the building
- Treating indoor air (carbon filtration, air purifiers)
- Installing and operating engineered exposure controls (sub-slab depressurization systems)
- Temporarily relocating occupants

At this juncture you are required to take the following actions:

- Notify occupants of the dry cleaning suite and adjacent suites located in the mall about the results of the vapor intrusion sampling and provide documentation to ACDEH by Monday February 8, 2016. Appendix D of the attached file contains guidelines to assist you with the transmittal of results.

- Immediately implement interim measures discussed above and submit a report to ACDEH of actions taken and actions planned to be taken with a corresponding schedule by Friday February 12, 2016.
- Collection of confirmation indoor air samples within the dry cleaner and indoor air samples from all adjacent suites to assess risk to those occupants. A work plan for indoor air sampling must be submitted to ACDEH by Tuesday February 9, 2016 and air sample collection by Friday February 12, 2016. The work plan must include expedited turnaround time for analytical results (e.g. 24 to 72 hour for indoor air samples), and the work plan must also include documentation provided to the tenants notifying them of air sampling protocols as addressed in Appendix C of the attached document. Preliminary analytical laboratory results for the indoor air sampling must be submitted to ACDEH immediately upon receipt from the laboratory and a final report with recommendations for next steps submitted to ACDEH by February 26, 2016.

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PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>